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1. [20040086937](#). 09 Oct 01. 06 May 04. Novel method for identifying antibacterial compounds. Loferer, Hannes, et al. 435/7.1; G01N033/53.

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2. [20030073134](#). 17 Jun 02. 17 Apr 03. Crystals and structures of 2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase MECPS. Louie, Gordon V., et al. 435/7.1; 702/19 G01N033/53 G06F019/00 G01N033/48 G01N033/50.

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3. [WO 200061793A](#). Identifying antibacterial compounds, comprises identifying an antagonist or inhibitor of the expression of a gene encoding a polypeptide essential for bacterial growth or survival. JACOBI, A, et al. A61K038/00 A61K045/00 A61P031/04 C07K014/245 C12N015/09 C12Q001/02 C12Q001/18 C12Q001/68 G01N033/15 G01N033/50 G01N033/53.

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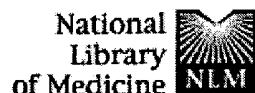
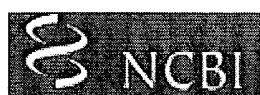
4. [EP 1043403A](#). Identifying antagonists of the expression of gene encoding bacterial growth polypeptide useful for treating bacterial infections or diseases, by evaluating transcription of the gene in the presence of test molecule. C07K014/245 C12Q001/18 C12Q001/68.

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*J Mol Microbiol Biotechnol.* 2001 Jul;3(3):483-9.

PMID: 11361082 [PubMed - indexed for MEDLINE]

2: [Campos N, Rodriguez-Concepcion M, Sauret-Gueto S, Gallego F, Lois LM, Boronat A.](#) Related Articles

*Escherichia coli* engineered to synthesize isopentenyl diphosphate and dimethylallyl diphosphate from mevalonate: a novel system for the genetic analysis of the 2-C-methyl-d-erythritol 4-phosphate pathway for isoprenoid biosynthesis.

*Biochem J.* 2001 Jan 1;353(Pt 1):59-67.

PMID: 11115399 [PubMed - indexed for MEDLINE]

3: [Herz S, Wungsintaweekul J, Schuhr CA, Hecht S, Luttgen H, Sagner S, Fellermeier M, Eisenreich W, Zenk MH, Bacher A, Rohdich F.](#) Related Articles

Biosynthesis of terpenoids: YgbB protein converts 4-diphosphocytidyl-2C-methyl-D-erythritol 2-phosphate to 2C-methyl-D-erythritol 2,4-cyclodiphosphat.

*Proc Natl Acad Sci U S A.* 2000 Mar 14;97(6):2486-90.

PMID: 10694574 [PubMed - indexed for MEDLINE]

4: [Rohdich F, Wungsintaweekul J, Fellermeier M, Sagner S, Herz S, Kis K, Eisenreich W, Bacher A, Zenk MH.](#) Related Articles

Cytidine 5'-triphosphate-dependent biosynthesis of isoprenoids: YgbP protein from *Escherichia coli* catalyzes the formation of 4-diphosphocytidyl-2-C-methylerythritol.

*Proc Natl Acad Sci U S A.* 1999 Oct 12;96(21):11758-63.

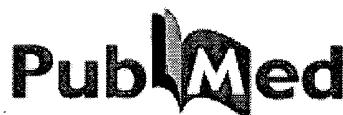
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□ 1: Mol Med Today. 2000 Dec;6(12):470-4.

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## Mining bacterial genomes for antimicrobial targets.

Loferer H.

GPC Biotech AG, Fraunhoferstrasse 20, D-82152 Martinsried/Munich, Germany  
Hannes.Loferer@gpc-biotech.com

The elucidation of whole-genome sequences is expected to have a revolution impact on the discovery of novel medicines. With the availability of complete genome sequences of more than 30 different species, the field of antimicrobial drug discovery has the opportunity to access a remarkable diversity of genomic information. In this review, I summarize how microbial genomics has changed strategies of drug discovery by applying bioinformatics, novel genetic approaches and genomics-based technologies, including analysis of gene expression using DNA microarrays.

### Publication Types:

- Review
- Review, Tutorial

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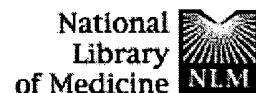
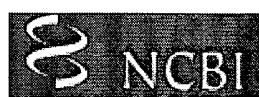
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### Integrated bacterial genomics for the discovery of novel antimicrobials.

**Loferer I I, Jacobi I I, Posch I I, Gauss I I, Meier-Ewert I I, Seizinger I I**

Genome Pharmaceuticals Corporation, Fraunhoferstrasse 20, D-82152 Martinsried/Munich, Germany.

Sequencing of bacterial genomes has been progressing with breathtaking speed. Currently, the genomes of 23 bacterial species are sequenced, with approximately 40 more sequencing projects in progress. Industrial research is now facing the challenge of translating this information efficiently into drug discovery. This review will summarize the impact of bacterial genomics, bioinformatics and second-generation genomic technologies on target identification, assay development, lead optimization and compound characterization.

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